

CLAIMS

What is claimed is:

- 5 1. A method for forming an article, comprising:

mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;
forming a pre-form from the mixture; and
extruding the pre-form to form the article.

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2. The method according to claim 1, wherein said article is in the shape of a tube or a flat sheet.

- 15 3. The method according to claim 1, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

- 20 4. The method according to claim 1, wherein the first wettable liquid is formed of at least one of a drug and an agent.

- 25 5. The method according to claim 1, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

- 30 6. A method for forming an article, comprising:

mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;

forming a pre-form from the mixture;

extruding the pre-form to form an extruded article; and

stretching the extruded article to form the article.

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7. The method according to claim 6, wherein the article is in the shape of a tube or a flat sheet.

10 8. The method according to claim 6, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or
15 thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria,
20 viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

9. The method according to claim 6, wherein the first wettable liquid is formed of at least one of a drug and an agent.

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10. The method according to claim 6, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

11. A method for forming an article, comprising:

30 mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;

forming a pre-form from the mixture;

extruding the pre-form to form an extruded article;

drying the extruded article; and
stretching the extruded article to form the article.

12. The method according to claim 11, wherein the article is in the shape of a tube or a flat

5 sheet.

13. The method according to claim 11, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents,

10 thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell

15 adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

20 14. The method according to claim 11, wherein the first wettable liquid is formed of at least one of a drug and an agent.

15. The method according to claim 11, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

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16. A method for forming an article, comprising:

mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;

forming a pre-form from the mixture;

30 extruding the pre-form to form an extruded article;

re-wetting the extruded article with at least one of the first wettable liquid and a second wettable liquid; and

stretching the re-wetted article to form the article.

17. The method according to claim 16, wherein the article is in the shape of a tube or a flat sheet.

5 18. The method according to claim 16, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion
10 or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria,
15 viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

19. The method according to claim 16, wherein the first wettable liquid is formed of at least one of a drug and an agent.

20 20. The method according to claim 16, wherein the second wettable liquid is formed of at least one of a drug and an agent.

25 21. The method according to claim 16, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

22. A method for forming an article, comprising:

 mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;

30 forming a pre-form from the mixture;
 extruding the pre-form to form an extruded article;
 stretching the extruded article; and
 re-wetting the extruded article with a second wettable liquid to form the article.

23. The method according to claim 22, wherein the article is in the shape of a tube or a flat sheet.

5 24. The method according to claim 22, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion
10 or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria,
15 viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

25. The method according to claim 22, wherein the first wettable liquid is formed of at least one of a drug and an agent.

20 26. The method according to claim 22, wherein the second wettable liquid is formed of at least one of a drug and an agent.

25 27. The method according to claim 22, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

28. A method for forming an article, comprising:

 mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;

30 forming a pre-form from the mixture;
 extruding the pre-form to form an extruded article;
 stretching the extruded article;

re-wetting the extruded article with a second wettable liquid to form a re-wetted extruded article; and

stretching the re-wetted extruded article to form the article.

5 29. The method according to claim 28, wherein the article is in the shape of a tube or a flat sheet.

30. The method according to claim 28, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-
10 inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis,
15 anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

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31. The method according to claim 28, wherein the first wettable liquid is formed of at least one of a drug and an agent.

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32. The method according to claim 28, wherein the second wettable liquid is formed of at least one of a drug and an agent.

33. The method according to claim 28, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

34. A method for forming an article, comprising:

mixing an aqueous dispersion of fluoropolymer with at least one of a drug and an agent to form a mixture;

coagulating the mixture;

forming a pre-form from the mixture; and

extruding the pre-form to form the article.

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35. The method according to claim 34, wherein the article is in the shape of a tube or a flat sheet.

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36. The method according to claim 34, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

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37. A method for forming an article, comprising:

mixing an aqueous dispersion of fluoropolymer with at least one of a drug and an agent to form a mixture;

coagulating the mixture;

forming a pre-form from the mixture;

extruding the pre-form to form an extruded article; and

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stretching the extruded article to form the article.

38. The method according to claim 37, wherein the article is in the shape of a tube or a flat sheet.

39. The method according to claim 37, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents,
- 5 thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell
- 10 adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.
- 15 40. A method for forming an article, comprising:
 mixing an aqueous dispersion of fluoropolymer with at least one of a drug and an agent to form a mixture;
 coagulating the mixture;
 forming a pre-form from the mixture;
20 extruding the pre-form to form an extruded article;
 drying the extruded article; and
 stretching the extruded article to form the article.
- 25 41. The method according to claim 40, wherein the article is in the shape of a tube or a flat sheet.
42. The method according to claim 40, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents,
- 30 thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis,

anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and
5 materials with a bioactive compound covalently bound thereto.

43. A method for forming an article, comprising:

mixing an aqueous dispersion of fluoropolymer with at least one of a drug and an agent to form a mixture;

10 coagulating the mixture;

forming a pre-form from the mixture;

extruding the pre-form to form an extruded article;

re-wetting the extruded article with a first wettable liquid; and

stretching the re-wetted article to form the article.

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44. The method according to claim 43, wherein the article is in the shape of a tube or a flat sheet.

45. The method according to claim 43, wherein the at least one of a drug and an agent
20 comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger
25 targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and
30 materials with a bioactive compound covalently bound thereto.

46. The method according to claim 43, wherein the first wettable liquid is formed of at least one of a drug and an agent.

47. A method for forming an article, comprising:

mixing an aqueous dispersion of fluoropolymer with at least one of a drug and an agent to form a mixture;

5 coagulating the mixture;

forming a pre-form from the mixture;

extruding the pre-form to form an extruded article;

stretching the extruded article; and

re-wetting the extruded article with a first wettable liquid to form the article.

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48. The method according to claim 47, wherein the article is in the shape of a tube or a flat sheet.

49. The method according to claim 47, wherein the at least one of a drug and an agent

15 comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and 20 materials with a bioactive compound covalently bound thereto.

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50. The method according to claim 47, wherein the first wettable liquid is formed of at least one of a drug and an agent.

30 51. A method for forming an article, comprising:

mixing an aqueous dispersion of fluoropolymer with at least one of a drug and an agent to form a mixture;

coagulating the mixture;

- forming a pre-form from the mixture;
extruding the pre-form to form an extruded article;
stretching the extruded article;
re-wetting the extruded article with a first wettable liquid; and
5 stretching the re-wetted article to form the article.
52. The method according to claim 51, wherein the article is in the shape of a tube or a flat sheet.
- 10 53 The method according to claim 51, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion
15 or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria,
20 viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.
54. The method according to claim 51, wherein the first wettable liquid is formed of at least one of a drug and an agent.
- 25 55. A method for forming an article, comprising:
mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;
forming a pre-form from the mixture;
30 extruding the pre-form to form an extruded article;
stretching the extruded article; and
re-wetting the extruded article with a second wettable liquid including at least one of a drug and an agent to form the article.

56. The method according to claim 55, wherein the article is in the shape of a tube or a flat sheet.

5 57. The method according to claim 55, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion
10 or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria,
15 viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

58. The method according to claim 55, wherein the first wettable liquid is formed of at least one of a drug and an agent.

20 59. The method according to claim 55, wherein the second wettable liquid is formed of at least one of a drug and an agent.

25 60. The method according to claim 55, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

61. A method for forming an article, comprising:

mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;

30 forming a pre-form from the mixture;
extruding the pre-form to form an extruded article;
stretching the extruded article;

re-wetting the extruded article with a second wettable liquid including at least one of a drug and an agent; and

stretching the re-wetted extruded article to form the article.

5 62. The method according to claim 61, wherein the article is in the shape of a tube or a flat sheet.

63. The method according to claim 61, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-
10 inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis,
15 anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

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64. The method according to claim 61, wherein the first wettable liquid is formed of at least one of a drug and an agent.

65. The method according to claim 61, wherein the second wettable liquid is formed of at least one of a drug and an agent.

66. The method according to claim 61, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

30 67. A method for forming an article, comprising:

combining at least one of a drug and an agent with a first wettable liquid;
mixing a polymer resin with the first wettable liquid to form a mixture;
forming a pre-form from the mixture;

extruding the pre-form to form an extruded article;
drying a low BP component of the wettable liquid from the extruded article; and
stretching the extruded article to form the article.

5 68. The method according to claim 67, wherein the article is in the shape of a tube or a flat sheet.

69. The method according to claim 67, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-
10 inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis,
15 anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

20 70. The method according to claim 67, wherein the first wettable liquid is formed of at least one of a drug and an agent.

71. The method according to claim 67, wherein the second wettable liquid is formed of at
25 least one of a drug and an agent.

72. The method according to claim 67, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

30 73. A method for forming an article, comprising:
mixing a polymer resin with a first wettable liquid and at least one of a drug and an agent to form a mixture;
forming a pre-form from the mixture;

extruding the pre-form to form an extruded article;
drying a low BP component of the first wettable liquid from the extruded article; and
stretching the extruded article to form the article.

5 74. The method according to claim 73, wherein the article is in the shape of a tube or a flat sheet.

75. The method according to claim 73, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-
10 inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis,
15 anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

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76. The method according to claim 73, wherein the first wettable liquid is formed of at least one of a drug and an agent.

77. The method according to claim 73, further comprising mixing a powder formed at least
25 partially of at least one of a drug and an agent to form the polymer resin.

78. A method for forming an article, comprising:
mixing a polymer resin with a first wettable liquid to form a mixture;
forming a pre-form from the mixture;
30 extruding the pre-form to form an extruded article;
re-wetting the extruded article with at least one of the first wettable liquid and a second wettable liquid, the second wettable liquid formed at least partially with at least one of a drug and an agent; and
stretching the re-wetted article to form the article.

79. The method according to claim 78, wherein the article is in the shape of a tube or a flat sheet.

5 80. The method according to claim 78, wherein the at least one of a drug and an agent comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion
10 or thrombosis, agents for functional protein or factor delivery, agents for second messenger targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria,
15 viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and materials with a bioactive compound covalently bound thereto.

81. The method according to claim 78, wherein the first wettable liquid is formed of at least one of a drug and an agent.

20 82. The method according to claim 78, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.

83. A method for forming an article, comprising:

25 mixing a polymer resin with a first wettable liquid to form a mixture;
 forming a pre-form from the mixture;
 extruding the pre-form to form an extruded article;
 stretching the extruded article; and
 re-wetting the extruded article with a second wettable liquid to form the article,
30 wherein the second wettable liquid is formed at least partially with at least one of a drug and an agent.

84. The method according to claim 83, wherein the article is in the shape of a tube or a flat sheet.

85. The method according to claim 83, wherein the at least one of a drug and an agent
5 comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-
inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents,
thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-
neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion
10 or thrombosis, agents for functional protein or factor delivery, agents for second messenger
targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis,
anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell
adhesion/signaling molecules, nitric oxide donating derivatives, contrast media,
microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria,
viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and
15 materials with a bioactive compound covalently bound thereto.

86. The method according to claim 83, wherein the first wettable liquid is formed of at least
one of a drug and an agent.

20 87. The method according to claim 83, further comprising mixing a powder formed at least
partially of at least one of a drug and an agent to form the polymer resin.

88. A method for forming an article, comprising:

mixing a polymer resin with a first wettable liquid to form a mixture;
25 forming a pre-form from the mixture;
extruding the pre-form to form an extruded article;
stretching the extruded article;
re-wetting the extruded article with a second wettable liquid to form a re-wetted
extruded article, the second wettable liquid formed at least partially with at least one of a drug
30 and an agent; and
stretching the re-wetted extruded article to form the article.

89. The method according to claim 88, wherein the article is in the shape of a tube or a flat sheet.

90. The method according to claim 88, wherein the at least one of a drug and an agent
5 comprise at least one of anti-arrhythmics, antioxidants, anti-hypertensive agents, anti-inflammatory agents, growth factor antagonists, anti-platelet agents, anti-coagulant agents, thrombolytic agents, drugs to alter lipid metabolism, ACE inhibitors, anti-proliferatives, anti-neoplastics, tissue growth stimulants, gasses, agents for promotion of hollow organ occlusion or thrombosis, agents for functional protein or factor delivery, agents for second messenger
10 targeting, angiogenic agents, anti-angiogenic agents, agents for inhibition of protein synthesis, anti-infective agents, agents for gene delivery, agents for local tissue perfusion, cell adhesion/signaling molecules, nitric oxide donating derivatives, contrast media, microspheres, nanoparticles, nanospheres, microdelivery devices, liposomes, cells, bacteria, viruses, hormones, slurries, polymers, polynucleotides, vasodialators, vasoconstrictors, and
15 materials with a bioactive compound covalently bound thereto.

91. The method according to claim 88, wherein the first wettable liquid is formed of at least one of a drug and an agent.

20 92. The method according to claim 88, further comprising mixing a powder formed at least partially of at least one of a drug and an agent to form the polymer resin.